

## Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>LAKE HURON</b>				
<b>OUTER SAGINAW BAY SW OF ALABASTER TO PORT AUSTIN MI TO INNER SAGINAW BAY COUNTY --- GRAVELLY SHOALS LIGHT [44.02, -83.54]</b>				
	08/30/14 16:40 EST	0		Marine Thunderstorm Wind (MG 38 kt)
	08/30/14 16:40 EST	0		Source: C-MAN Station
A thunderstorm moving through Saginaw Bay produced a 44 mph thunderstorm wind gust.				
<b>LAKE ST CLAIR</b>				
<b>DETROIT RIVER COUNTY --- 1.0 N WYANDOTTE [42.21, -83.17]</b>				
	08/26/14 15:55 EST	0		Marine Thunderstorm Wind (EG 52 kt)
	08/26/14 15:55 EST	0		Source: Trained Spotter
A thunderstorm which uprooted a large tree north of Wyandotte moved into the Detroit River.				
<b>DETROIT RIVER COUNTY --- 1.5 NNE WYANDOTTE [42.22, -83.16]</b>				
	08/26/14 16:09 EST	0		Marine Thunderstorm Wind (EG 50 kt)
	08/26/14 16:09 EST	0		Source: Trained Spotter
A thunderstorm which brought down small tree northwest of Wyandotte moved into the Detroit River.				
<b>LAKE ST CLAIR (U.S. PORTION) COUNTY --- 2.3 SSW ST CLAIR SHORES [42.44, -82.90]</b>				
	08/26/14 16:14 EST	0		Marine Thunderstorm Wind (EG 56 kt)
	08/26/14 16:14 EST	0		Source: Public
A thunderstorm which brought down large trees in Grosse Pointe Woods moved into Lake St. Clair.				
<b>LAKE ST CLAIR (U.S. PORTION) COUNTY --- 7.0 SW NEW BALTIMORE [42.61, -82.83]</b>				
	08/26/14 16:31 EST	0		Marine Thunderstorm Wind (MG 37 kt)
	08/26/14 16:31 EST	0		Source: ASOS
<b>LAKE ST CLAIR (U.S. PORTION) COUNTY --- 11.0 ESE NEW BALTIMORE [42.62, -82.53]</b>				
	08/26/14 16:50 EST	0		Marine Thunderstorm Wind (EG 52 kt)
	08/26/14 16:50 EST	0		Source: Trained Spotter
A thunderstorm which brought down small trees in Algonac moved into the St. Clair River.				
Severe thunderstorms tracked across the Detroit River, Lake St. Clair, and the St. Clair River.				
<b>MICHIGAN, East</b>				
<b>BAY COUNTY --- 2.3 SE BEAVER [43.68, -84.03]</b>				
	08/01/14 19:09 EST	0		Hail (1.00 in)
	08/01/14 19:09 EST	0		Source: Public
A thunderstorm produced 1 inch hail.				
<b>OAKLAND COUNTY --- 0.7 S BERKLEY [42.49, -83.17]</b>				
	08/02/14 18:35 EST	0		Hail (0.88 in)
	08/02/14 18:35 EST	0		Source: Trained Spotter
<b>WAYNE COUNTY --- 3.0 NNE HIGHLAND PARK [42.44, -83.15]</b>				
	08/02/14 18:48 EST	0		Hail (1.00 in)
	08/02/14 18:48 EST	0		Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A thunderstorm produced up to 1 inch hail as it tracked across far southeast Oakland and northern Wayne counties.				
<b>WASHTENAW COUNTY --- 2.8 N CHELSEA [42.36, -84.02]</b>				
	08/04/14 14:56 EST		0	Hail (0.75 in)
	08/04/14 14:56 EST		0	Source: Trained Spotter
<b>MACOMB COUNTY --- 0.9 SE ROSEVILLE [42.49, -82.89]</b>				
	08/04/14 16:18 EST		0	Hail (1.00 in)
	08/04/14 16:18 EST		0	Source: Broadcast Media
<b>WAYNE COUNTY --- 1.4 N GROSSE PT SHRS [42.45, -82.87]</b>				
	08/04/14 16:25 EST		0	Hail (1.00 in)
	08/04/14 16:25 EST		0	Source: Broadcast Media
A few thunderstorms produced up to 1 inch hail.				
<b>BAY COUNTY --- 0.7 ESE APLIN BEACH [43.62, -83.77], 5.4 SSE APLIN BEACH [43.54, -83.75], 4.9 WSW BAY CITY MUNI ARPT [43.53, -83.99], 0.5 WNW TOBICO [43.68, -83.94]</b>				
	08/11/14 15:00 EST		0	Flash Flood (due to Heavy Rain)
	08/11/14 20:00 EST		0	Source: Emergency Manager
<b>SAGINAW COUNTY --- 0.6 NNW MUNGER [43.53, -83.78], 1.8 SW GERA [43.36, -83.78], 1.3 SSW SWAN CREEK [43.36, -84.11], 1.0 NW FREELAND [43.53, -84.13]</b>				
	08/11/14 15:00 EST		0	Flash Flood (due to Heavy Rain)
	08/11/14 20:00 EST		0	Source: Emergency Manager
<b>MACOMB COUNTY --- 1.9 S ST CLAIR SHRS [42.45, -82.87], 2.3 SSW PLEASANT RIDGE [42.45, -83.08], 4.2 W ROMEO [42.80, -83.10], 0.9 ESE RICHMOND [42.81, -82.73]</b>				
	08/11/14 16:00 EST		0.30B	Flash Flood (due to Heavy Rain)
	08/11/14 21:00 EST		0	Source: Broadcast Media
<b>OAKLAND COUNTY --- 1.9 E FERNDAL [42.45, -83.08], 2.2 SSW FARMINGTON [42.44, -83.39], 2.8 ESE LAKEVILLE [42.80, -83.10], 1.2 SSE BROOKLANDS [42.61, -83.09]</b>				
	08/11/14 16:00 EST		0.40B	Flash Flood (due to Heavy Rain)
	08/11/14 21:00 EST		0	Source: Broadcast Media
<b>WAYNE COUNTY --- 0.6 S EAST ROCKWOOD [42.04, -83.20], 3.1 SW WEST SUMPTER [42.09, -83.54], 3.7 W NORTHVILLE [42.44, -83.55], 1.5 N GROSSE PT SHRS [42.45, -82.87]</b>				
	08/11/14 16:00 EST		1.10B	Flash Flood (due to Heavy Rain)
	08/11/14 21:00 EST		0	Source: Broadcast Media
<b>GENESEE COUNTY --- (FNT)BISHOP ARPT FLI [42.97, -83.75], 0.7 ENE CLIO CAGNEY ARPT [43.16, -83.79], 1.5 ESE THETFORD CENTER [43.17, -83.59], 3.0 NE GOODRICH [42.95, -83.46]</b>				
	08/11/14 18:00 EST		0	Flash Flood (due to Heavy Rain)
	08/11/14 21:00 EST		0	Source: Trained Spotter
<b>MACOMB COUNTY --- 1.9 S ST CLAIR SHRS [42.45, -82.87], 2.3 SSW PLEASANT RIDGE [42.45, -83.09], 4.2 W ROMEO [42.80, -83.10], 0.9 ESE RICHMOND [42.81, -82.73]</b>				
	08/11/14 21:00 EST		0	Flood (due to Heavy Rain)
	08/13/14 00:00 EST		0	Source: Broadcast Media
Residual flooding and runoff left many roads flooded and closed , with the Clinton River in Clinton Township reaching a record stage of 20.84 feet at 07:45 Z on August 12th.				
<b>OAKLAND COUNTY --- 2.0 E FERNDAL [42.45, -83.08], 2.3 SSW FARMINGTON [42.44, -83.39], 2.9 ESE LAKEVILLE [42.80, -83.10], 1.5 SSE BROOKLANDS [42.61, -83.09]</b>				
	08/11/14 21:00 EST		0	Flood (due to Heavy Rain)
	08/13/14 00:00 EST		0	Source: Broadcast Media

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Residual flooding and runoff left many roads flooded and closed.				
<b>WAYNE COUNTY --- 0.6 S EAST ROCKWOOD [42.04, -83.20], 3.1 SW WEST SUMPTER [42.09, -83.54], 3.7 W NORTHVILLE [42.44, -83.55], 1.5 N GROSSE PT SHRS [42.45, -82.87]</b>				
	08/11/14 21:00 EST	0		Flood (due to Heavy Rain)
	08/13/14 00:00 EST	0		Source: Broadcast Media
Residual flooding and runoff left many roads flooded and closed , with Ecorse Creek in Dearborn Heights reaching a record stage of 10.22 feet at 02:10 Z on August 12th.				
A historic rainfall event unfolded over Southeast Michigan on Monday, August 11, leading to major flooding and road closures. This event was caused by a strengthening low pressure system moving over the area, focusing the tropical moisture which came up from the south. The hardest hit areas included Metro Detroit and surrounding communities, along with Flint and the Saginaw Valley areas. Wayne, Southern Oakland and Macomb counties saw the worst of the flooding as 4 to 6 inches of rain fell over a 4 hour period. Around 75,000 homes and businesses suffered damage, with over 3000 suffering major damage. There was also damage to the roads and bridges, along with the city sewer pumps which were overwhelmed by the torrential rainfall. Total estimated dollar loss from the Detroit Metro area was 1.8 billion dollars. Farther north, across parts of Saginaw, Bay, and Genesee counties, flooding was not nearly as bad, but flooded roads with 2 to 3 feet of water were reported.				
<b>OAKLAND COUNTY --- 2.1 WSW TROY [42.59, -83.19]</b>				
	08/12/14 14:04 EST	0		Hail (0.75 in)
	08/12/14 14:04 EST	0		Source: Trained Spotter
A thunderstorm produced dime size hail in Troy.				
<b>SHIAWASSEE COUNTY --- 3.6 SSE BANCROFT [42.83, -84.05]</b>				
	08/19/14 15:09 EST	0		Thunderstorm Wind (EG 50 kt)
	08/19/14 15:09 EST	0		Source: NWS Employee
Large tree limbs reported down.				
<b>LENAWEE COUNTY --- 1.5 E CAMBRIDGE JCT [42.05, -84.19]</b>				
	08/19/14 16:20 EST	0		Thunderstorm Wind (EG 56 kt)
	08/19/14 16:20 EST	0		Source: Amateur Radio
Trees reported blown down blocking road.				
<b>LENAWEE COUNTY --- 1.2 NW SPRINGVILLE [42.04, -84.19]</b>				
	08/19/14 16:25 EST	0		Thunderstorm Wind (EG 56 kt)
	08/19/14 16:25 EST	0		Source: Law Enforcement
Trees reported down across the road.				
<b>LENAWEE COUNTY --- 1.7 WSW OAK SHADE PARK [42.06, -84.18]</b>				
	08/19/14 16:25 EST	0		Thunderstorm Wind (EG 56 kt)
	08/19/14 16:25 EST	0		Source: Trained Spotter
Trees uprooted and snapped in half.				
<b>LENAWEE COUNTY --- 0.5 W ADRIAN [41.90, -84.04]</b>				
	08/19/14 16:30 EST	0		Hail (0.75 in)
	08/19/14 16:30 EST	0		Source: 911 Call Center
<b>LENAWEE COUNTY --- 2.7 WSW BIRDSALL [41.94, -84.05]</b>				
	08/19/14 16:30 EST	0		Thunderstorm Wind (EG 56 kt)
	08/19/14 16:30 EST	0		Source: Law Enforcement
Trees reported blown down.				
<b>LENAWEE COUNTY --- 2.5 NW BIRDSALL [41.97, -84.04]</b>				
	08/19/14 16:33 EST	4K		Thunderstorm Wind (EG 56 kt)
	08/19/14 16:33 EST	0		Source: Law Enforcement

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trees reported down, along with wires and power pole.				
<b>MONROE COUNTY --- 2.6 E GRAPE [41.97, -83.48]</b>				
	08/19/14 16:54 EST		0	Thunderstorm Wind (EG 50 kt)
	08/19/14 16:54 EST		0	Source: Trained Spotter
Large tree limbs reported down.				
<b>WAYNE COUNTY --- 1.7 WNW ALLEN PARK [42.26, -83.25]</b>				
	08/19/14 17:07 EST		0	Thunderstorm Wind (EG 52 kt)
	08/19/14 17:07 EST		0	Source: Trained Spotter
Six inch diameter tree limbs and wires down, along with shingles blow off a roof.				
<b>WAYNE COUNTY --- 1.4 S ALLEN PARK [42.23, -83.22]</b>				
	08/19/14 17:10 EST		0	Thunderstorm Wind (EG 52 kt)
	08/19/14 17:10 EST		0	Source: Trained Spotter
One to two foot diameter tree blown down onto the road.				
<b>WAYNE COUNTY --- 1.0 W ALLEN PARK [42.25, -83.24]</b>				
	08/19/14 17:11 EST		3K	Thunderstorm Wind (EG 52 kt)
	08/19/14 17:11 EST		0	Source: Public
Gazebo destroyed.				
<b>WAYNE COUNTY --- 0.9 NW ALLEN PARK [42.26, -83.23]</b>				
	08/19/14 17:12 EST		1K	Thunderstorm Wind (EG 54 kt)
	08/19/14 17:12 EST		0	Source: Trained Spotter
Moderate size trees and wires down. Shingles blown off a roof.				
<b>WAYNE COUNTY --- 1.5 W LINCOLN PARK [42.23, -83.20]</b>				
	08/19/14 17:13 EST		0	Thunderstorm Wind (EG 54 kt)
	08/19/14 17:13 EST		0	Source: Public
Trees reported blown down.				
<b>WAYNE COUNTY --- 0.5 W ECORSE [42.25, -83.18]</b>				
	08/19/14 17:14 EST		0	Thunderstorm Wind (EG 56 kt)
	08/19/14 17:14 EST		0	Source: Trained Spotter
Large trees blown down across road.				
<b>ST. CLAIR COUNTY --- 0.5 W COLUMBUS [42.88, -82.66]</b>				
	08/19/14 17:37 EST		0	Thunderstorm Wind (EG 54 kt)
	08/19/14 17:37 EST		0	Source: 911 Call Center
Tree reported blown down onto Rattle Run Road.				
<b>Thunderstorms moved into Southeast Michigan during the late afternoon hours of August 19th, producing sporadic wind damage (65 mph) as they traversed through the area. Small hail was also reported in a few spots. Rainfall rates were briefly intense, with some locations receiving over an inch in less than 2 hours.</b>				
<b>MACOMB COUNTY --- 2.2 E RAY CENTER [42.77, -82.84], 2.5 E RAY CENTER [42.77, -82.83]</b>				
	08/20/14 13:04 EST		5K	Tornado (EF0, L: 0.29 mi , W: 100 yd)
	08/20/14 13:07 EST		0	Source: Law Enforcement
A brief EF0 tornado touched down around 204 pm EDT on Place Road between 29 and 30 mile road in Lenox Township. Maximum wind speeds were estimated to be 75 mph. Thin metal sheds were destroyed, with minor tree damage. This weak tornado was captured on video.				
<b>A low topped thunderstorm produced a weak tornado west of Richmond.</b>				

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<b>LIVINGSTON COUNTY --- 0.9 NW HOWELL [42.61, -83.94]</b>				
	08/26/14 15:15 EST		10K	Thunderstorm Wind (EG 56 kt)
	08/26/14 15:15 EST		0	Source: Newspaper
Multiple trees and power lines reported down.				
<b>GENESEE COUNTY --- 1.7 WSW LINDEN [42.81, -83.80]</b>				
	08/26/14 15:18 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 15:18 EST		0	Source: NWS Employee
Six to eight in diameter tree limbs down.				
<b>WASHTENAW COUNTY --- ANN ARBOR [42.28, -83.73]</b>				
	08/26/14 15:20 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 15:20 EST		0	Source: Trained Spotter
A spotter estimated a 60 mph thunderstorm wind gust.				
<b>WAYNE COUNTY --- 1.2 SW NANKIN MILLS [42.34, -83.40]</b>				
	08/26/14 15:34 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 15:34 EST		0	Source: Trained Spotter
A spotter estimated a 60 mph thunderstorm wind gust.				
<b>WAYNE COUNTY --- 2.1 S NANKIN MILLS [42.32, -83.38]</b>				
	08/26/14 15:40 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 15:40 EST		0	Source: Trained Spotter
Large tree limb reported down.				
<b>OAKLAND COUNTY --- 0.9 SE FRANKLIN [42.52, -83.29]</b>				
	08/26/14 15:45 EST		0	Thunderstorm Wind (EG 54 kt)
	08/26/14 15:45 EST		0	Source: NWS Employee
Several trees reported down.				
<b>OAKLAND COUNTY --- 1.4 N FRANKLIN [42.55, -83.30]</b>				
	08/26/14 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 15:45 EST		0	Source: Trained Spotter
Numerous 4 to 8 inch diameter tree branches reported down.				
<b>WAYNE COUNTY --- 0.9 NW BEECH [42.39, -83.29]</b>				
	08/26/14 15:46 EST		0	Thunderstorm Wind (EG 54 kt)
	08/26/14 15:46 EST		0	Source: Trained Spotter
A two foot diameter tree reported down.				
<b>WAYNE COUNTY --- 0.9 SW DEARBORN [42.31, -83.26]</b>				
	08/26/14 15:47 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 15:47 EST		0	Source: Public
Large tree limbs reported down.				
<b>WAYNE COUNTY --- 0.9 NE ALLEN PARK [42.26, -83.21]</b>				
	08/26/14 15:50 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 15:50 EST		0	Source: Public
Large tree limb reported down.				
<b>WAYNE COUNTY --- 3.5 S HIGHLAND PARK [42.35, -83.17]</b>				

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	08/26/14 15:50 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 15:50 EST		0	Source: Trained Spotter
Large tree uprooted.				
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<b>OAKLAND COUNTY --- 1.7 ESE OAK PARK [42.46, -83.20]</b>				
	08/26/14 15:54 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 15:54 EST		0	Source: Trained Spotter
Eight inch diameter trees reported down.				
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<b>WAYNE COUNTY --- 0.5 E LINCOLN PARK [42.23, -83.16]</b>				
	08/26/14 15:55 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 15:55 EST		0	Source: Trained Spotter
Large tree uprooted.				
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<b>OAKLAND COUNTY --- 1.0 W BERKLEY [42.50, -83.19]</b>				
	08/26/14 16:00 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 16:00 EST		0	Source: Trained Spotter
Numerous large tree limbs up to 2 feet in diameter reported down.				
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<b>WAYNE COUNTY --- 0.9 SE LINCOLN PARK [42.22, -83.16]</b>				
	08/26/14 16:09 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 16:09 EST		0	Source: Trained Spotter
A small tree was reported down.				
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<b>WAYNE COUNTY --- 2.9 WNW HAMTRAMCK [42.40, -83.10]</b>				
	08/26/14 16:10 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 16:10 EST		0	Source: Trained Spotter
Metal fence and gate was partially blown over, along with power lines blown down.				
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<b>WAYNE COUNTY --- 1.2 NE GROSSE PT WOODS [42.44, -82.90]</b>				
	08/26/14 16:14 EST		0	Thunderstorm Wind (EG 56 kt)
	08/26/14 16:14 EST		0	Source: Public
Thirty inch diameter trees reported down.				
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<b>MACOMB COUNTY --- 1.4 N CENTER LINE [42.49, -83.03]</b>				
	08/26/14 16:15 EST		0	Thunderstorm Wind (EG 55 kt)
	08/26/14 16:15 EST		0	Source: Trained Spotter
Several tree limbs reported down, one of which fell onto a power line.				
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<b>MACOMB COUNTY --- 2.1 SW MT CLEMENS [42.56, -82.90]</b>				
	08/26/14 16:22 EST		1K	Thunderstorm Wind (EG 50 kt)
	08/26/14 16:22 EST		0	Source: Public
Front door was blown off of a Rite Air Store.				
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<b>MACOMB COUNTY --- 3.4 SE UTICA [42.61, -82.99]</b>				
	08/26/14 16:30 EST		0	Thunderstorm Wind (EG 50 kt)
	08/26/14 16:30 EST		0	Source: Amateur Radio
Two six inch diameter tree branches down.				
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<b>ST. CLAIR COUNTY --- ALGONAC [42.62, -82.53]</b>				
	08/26/14 16:50 EST		0	Thunderstorm Wind (EG 52 kt)
	08/26/14 16:50 EST		0	Source: Trained Spotter

Storm Data and Unusual Weather Phenomena - August 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Multiple 6 inch diameter trees blown down.				
Storms rolled across parts of southeast Michigan during the afternoon on Tuesday, August 26, 2014. The atmosphere was primed for storms as temperatures climbed into the upper 80s to around 90 degrees and dew points reached into the lower 70s. A cold front approaching the area created the necessary lift needed for storm development. Storms quickly raced east across southern, Lower Michigan bringing numerous reports of downed trees and power lines south of the I-69 corridor. An estimated 150,000 customers lost power.				
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MIDLAND COUNTY --- 1.7 SE LARKIN [43.70, -84.23]	08/30/14 15:30 EST	0	Thunderstorm Wind (EG 56 kt)	
	08/30/14 15:30 EST	0	Source: Fire Department/Rescue	

Numerous trees were reported down.

A localized thunderstorm down burst brought down trees northeast of Midland.